

**IN THE ABSTRACT**

Please delete the abstract and substitute the following new abstract:

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-- Orthogonal Frequency Division Multiplexed transmission and reception using a broadcast burst preamble. The preamble comprises at least one first part (A-FIELD) designed for a course frame detection and/or an AGC control, and at least one second part (B-FIELD) following the at least one first part in the time domain and being designed for a timing and frequency synchronization. The at least one first part (A-FIELD) and the at least one second part (B-FIELD) each include Inverse Fast Fourier Transformed (IFFT) frequency domain sequences of complex symbols. The frequency domain sequence of the at least one first part (A-FIELD) is set depending on the frequency domain sequence of the at least one second part (B-FIELD) such that a second autocorrelation peak mainly generated by the at least one second part (B-FIELD) of the preamble is optimized. The sequence of complex symbols of the first part differs from the sequence of complex symbols of the second part in at least one symbol.--